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(54) METHOD FOR MEASURING BLADE TIP
CLEARANCE OF CERAMIC ROTOR BLADE

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(57) Abstract:

PROBLEM TO BE SOLVED: To measure the blade tip clearance of a ceramic rotor blade during operation.

SOLUTION: This method is to measure the blade tip clearance of a ceramic rotor blade 2 embedded in the metallic turbine disc 1 of a gas turbine. In this case, a probe 4 is so arranged that its end is opposed to a rotor blade tip, metallic coating is applied to the tip part of the ceramic rotor blade 2 and a communicating part to earth the tip part and an embedded part, change of electrostatic capacity of the probe 4 caused by the change of a clearance between the end of the probe 4 and the rotor blade tip is detected, and blade tip clearance is measured.

